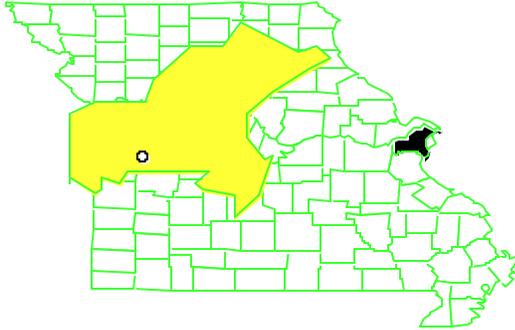


VALLEY PARK TCE
MISSOURI
EPA ID# MOD980968341

EPA Region 7
City: Valley Park
County: St. Louis County
Other Names: TCE Study

07/25/2002



SITE DESCRIPTION

The Valley Park TCE site is located within the city limits of Valley Park. The site is a plume of contaminated ground water in the Meramec River alluvial aquifer. In 1982, the Missouri Department of Natural Resources (MDNR) detected a number of volatile organic chemicals (VOCs) including trichloroethylene (TCE), tetrachloroethene (PCE), and trichloroethane (TCA) in all three municipal water supply wells serving the community. Private wells within the vicinity of the site are also contaminated with VOCs. However, area private wells reportedly are used only for industrial purposes. Two sources have been identified. There were approximately 3,000 people in the community who had obtained drinking water from the affected ground water.

Site Responsibility:

This site is being addressed through Federal, State, and potentially responsible parties' actions.

NPL LISTING HISTORY

Proposed Date: 04/10/1985

Final Date: 06/10/1986

Deleted Date:

THREATS AND CONTAMINANTS



The aquifer poses a potential health threat due to uses of the ground water contaminated with TCE, PCE and TCA. Those health threats include both area residents and workers. Exposure to contaminants released to the air is possible since industries use the contaminated ground water in the area. Exposure to contaminants in drinking water is possible in the future since the contaminated ground water could migrate to the Kirkwood water supply, if not controlled within Valley Park.

CLEANUP APPROACH

Response Action Status

Immediate Actions: In 1986, Valley Park installed aeration equipment at its water treatment plant to remove the VOCs that had been detected in the drinking water. In 1989, Valley Park was connected to the St. Louis County public water system, which now supplies its drinking water. Since Valley Park was connected to the County public water system, the residents no longer are using contaminated water for domestic purposes. In 1990, a potentially responsible party removed 331 cubic yards of PCE- and TCE-contaminated soil and backfilled the area. The predetermined cleanup levels were not attained; however, planned studies and future activities were expected to attain the cleanup levels.

Ground water: Under supervision by the MDNR, one of the potentially responsible parties agreed to conduct a site investigation on their property. In the fall of 1994, EPA selected a remedy for cleanup of the Wainwright operable unit. The remedy includes: limited soil excavation; soil vapor extraction and after 5 years, additional soil excavation if needed; air sparging to accelerate the soil cleanup; ground water extraction, and treatment by air stripping; discharge of treated ground water into the public sewer system; and ground water monitoring. During negotiations with Wainwright, MDNR and EPA agreed to modify the remedy by replacing in-situ soil vapor extraction with ex-situ soil vapor extraction and deleting the air-sparging. This change was completed in 1996 with an Explanation of Significant Differences (ESDs) document. Wainwright Industries signed a consent decree with MDNR in 1996 to implement the remedy.

The investigation for the operable unit two, the area-wide ground water problem, began in 1997 and was completed in 2001, when EPA and MDNR selected a remedy. This remedy includes: limited soil excavation followed by ex-situ soil vapor extraction at a second source area, in-situ soil vapor extraction at the second source area, ground water extraction, treatment with air stripping, and

reinjection downgradient of the second source area, and, finally, installation of air stripping systems on two industrial wells located within the contaminated aquifer.

Site Facts: Wainwright Industries entered into an administrative order with MDNR in 1991 to conduct the remedial investigation for operable unit one. Subsequently, Wainwright entered into a consent decree with MDNR in 1995 to implement the remedy for operable unit one.

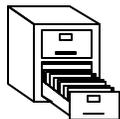
ENVIRONMENTAL PROGRESS



By connecting the public water supply to the County water system, the potential for exposure to contaminated drinking water was reduced at the Valley Park TCE site while final cleanup remedies were planned. The design for the Wainwright source was completed in 1998. Implementation began in 1998, and construction activities were completed in 1999. The soil source cleanup was completed as designed. However, the ground water extraction and treatment process has been suspended due to the occurrence of methyl, tertiary butyl ether (MTBE) in the incoming ground water. The MTBE source is unrelated to the Wainwright source and causes unacceptable removal efficiencies. MDNR is working on the MTBE source problem.

Implementation of the remedy for the area-wide ground water problem has been problematic because the two responsible parties for the two source areas are small companies and claim financial problems in paying for the remedy. EPA and MDNR are continuing negotiations with the two parties.

SITE REPOSITORY



Valley Park City Library,
320 Benton Street,
Valley Park, MO 63088

Superfund Records Center
901 N. 5th St.
Kansas City, KS 66101
Mail Stop SUPR
(913)551-4038

REGIONAL CONTACTS

SITE MANAGER: Steve Auchterlonie
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COMMUNITY INVOLVEMENT COORDINATOR: Hattie Thomas
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STATE CONTACT: Jill Bruss
PHONE NUMBER: (573) 522-9821

MISCELLANEOUS INFORMATION

STATE: MO
077F

CONGRESSIONAL DISTRICT: 02

EPA ORGANIZATION: SFD-MOKS

MODIFICATIONS

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